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NEWS 20 JAN 28 USGENE now provides USPTO sequence data within 3 days of publication
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NEWS 23 FEB 08 STN Express, Version 8.3, now available
NEWS 24 FEB 20 PCI now available as a replacement to DPCI
NEWS 25 FEB 25 IFIREF reloaded with enhancements
NEWS 26 FEB 25 IMSPRODUCT reloaded with enhancements
NEWS 27 FEB 29 WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification

NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

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ring nodes :
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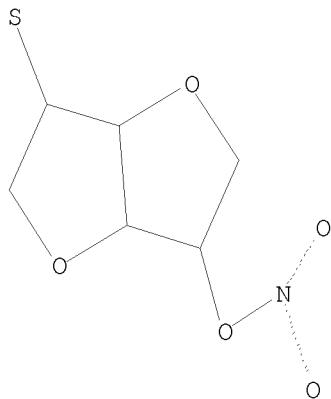
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exact/norm bonds :
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Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS

L1 STRUCTURE UPLOADED

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L1 HAS NO ANSWERS
L1 STR



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=> s sss l1 sam
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SAMPLE SCREEN SEARCH COMPLETED - 2 TO ITERATE

100.0% PROCESSED 2 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2 TO 124
PROJECTED ANSWERS: 0 TO 0

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L3 11 SEA SSS FUL L1

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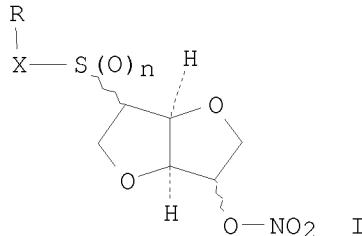
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L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:371266 CAPLUS
DOCUMENT NUMBER: 142:423847
TITLE: Disulfide, sulfide, sulfoxide, and sulfone derivatives of cyclic sugars and uses thereof
INVENTOR(S): Repolles Moliner, Jose; Salas Perez-Rasilla, Eduardo; Pubill Coy, Francisco
PATENT ASSIGNEE(S): Lacer, S.A., Spain
SOURCE: PCT Int. Appl., 92 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
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| WO 2005037842 | A1 | 20050428 | WO 2004-EP10882 | 20040929 |
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RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
 SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
 SN, TD, TG
 ES 2258365 A1 20060816 ES 2003-2368 20031003
 ES 2258365 B1 20071201
 AU 2004281916 A1 20050428 AU 2004-281916 20040929
 CA 2540500 A1 20050428 CA 2004-2540500 20040929
 EP 1668017 A1 20060614 EP 2004-765682 20040929
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
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 GB 2421241 A 20060621 GB 2006-5574 20040929
 DE 112004001860 T5 20060727 DE 2004-112004001860 20040929
 BR 2004015020 A 20061107 BR 2004-15020 20040929
 CN 1863805 A 20061115 CN 2004-80028935 20040929
 JP 2007507451 T 20070329 JP 2006-530042 20040929
 MX 2006PA03610 A 20060605 MX 2006-PA3610 20060330
 IN 2006KN01011 A 20070420 IN 2006-KN1011 20060420
 NO 2006001872 A 20060630 NO 2006-1872 20060427
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 PRIORITY APPLN. INFO.: ES 2003-2368 A 20031003
 WO 2004-EP10882 W 20040929

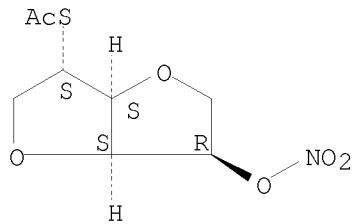
OTHER SOURCE(S): MARPAT 142:423847
 GI



- AB In the present invention there are disclosed new derivs. of dianhydrohexite mononitrate corresponding to formula I (where n = 0, 1, 2; X = -(C=O)-, etc., R = H, alkyl, alkenyl, cycloalkyl, etc.), tautomers, pharmaceutically acceptable salts, prodrugs and solvates thereof as well as pharmaceutical compns. comprising these compds. and uses thereof.
- IT 263754-93-4P 850534-53-1P 850534-54-2P
 850534-55-3P 850534-56-4P 850534-57-5P
 850534-58-6P 850534-59-7P 850534-60-0P
 850534-61-1P 850534-62-2P
 RL: PAC (Pharmacological activity); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (disulfide, sulfide, sulfoxide, and sulfone derivs. of cyclic sugars and uses thereof)
- RN 263754-93-4 CAPLUS
- CN D-Glucitol, 1,4:3,6-dianhydro-2-thio-, 2-acetate 5-nitrate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

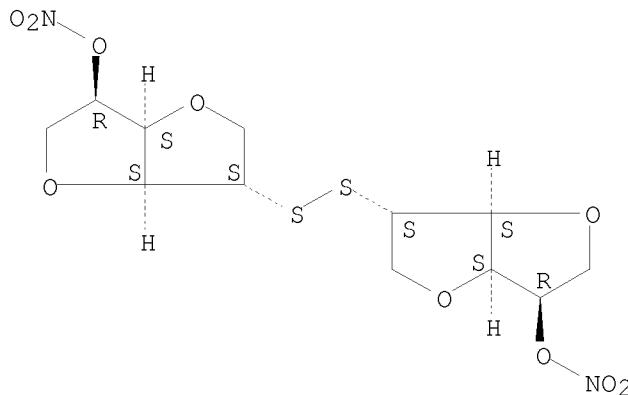
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RN 850534-53-1 CAPLUS

CN D-Glucitol, 2,2'-dithiobis[1,4:3,6-dianhydro-2-deoxy-, dinitrate (9CI)
(CA INDEX NAME)

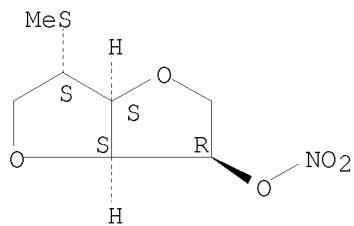
Absolute stereochemistry.



RN 850534-54-2 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-2-S-methyl-2-thio-, nitrate (9CI) (CA INDEX
NAME)

Absolute stereochemistry.

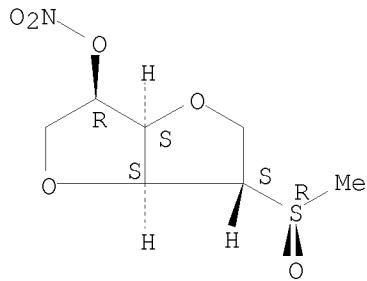


RN 850534-55-3 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-2-deoxy-2-[(R)-methylsulfinyl]-, nitrate
(9CI) (CA INDEX NAME)

Absolute stereochemistry.

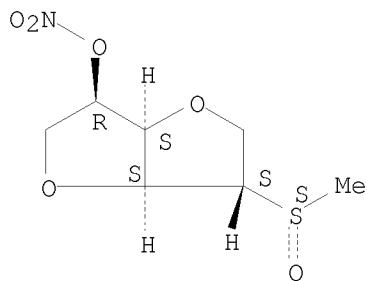
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RN 850534-56-4 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-2-deoxy-2-[(S)-methylsulfinyl]-, nitrate
(9CI) (CA INDEX NAME)

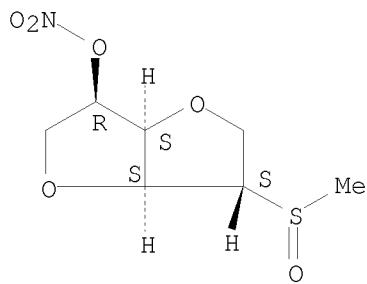
Absolute stereochemistry.



RN 850534-57-5 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-2-deoxy-2-(methylsulfinyl)-, nitrate (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

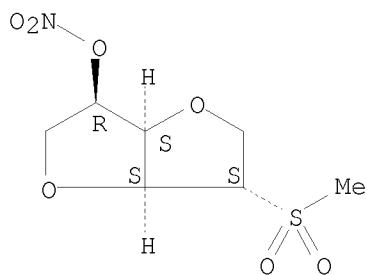


RN 850534-58-6 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-2-deoxy-2-(methylsulfonyl)-, nitrate (9CI)
(CA INDEX NAME)

Absolute stereochemistry.

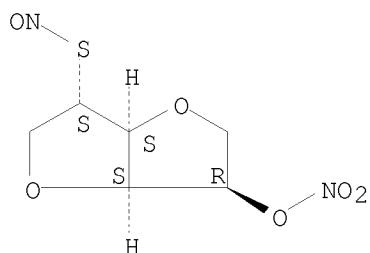
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RN 850534-59-7 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-2-thio-, 5-nitrate 2-nitrite (9CI) (CA INDEX NAME)

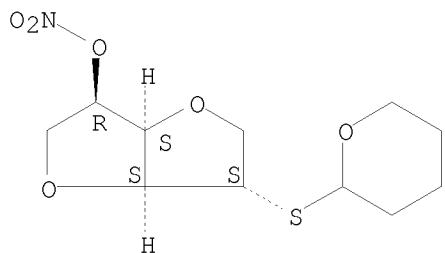
Absolute stereochemistry.



RN 850534-60-0 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-2-S-(tetrahydro-2H-pyran-2-yl)-2-thio-, nitrate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

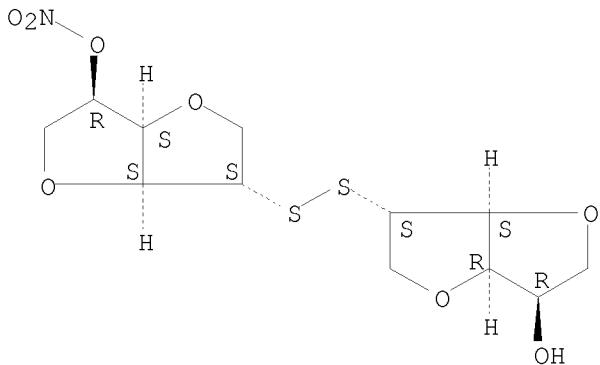


RN 850534-61-1 CAPLUS

CN D-Glucitol, 2,2'-dithiobis[1,4:3,6-dianhydro-2-deoxy-, mononitrate (9CI) (CA INDEX NAME)

Absolute stereochemistry.

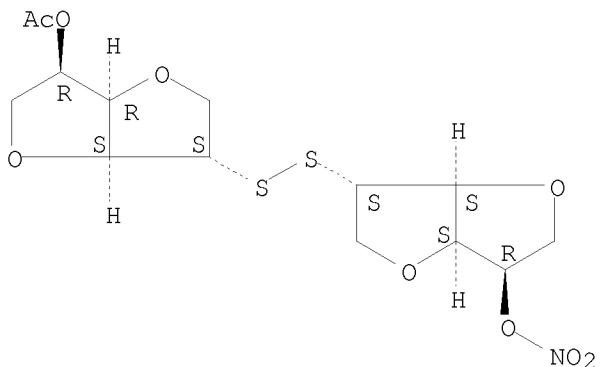
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RN 850534-62-2 CAPLUS

CN D-Glucitol, 2,2'-dithiobis[1,4:3,6-dianhydro-2-deoxy-, monoacetate mononitrate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT:

6

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2000:241230 CAPLUS

DOCUMENT NUMBER: 132:279468

TITLE: Derivatives of isosorbide mononitrate, and their use as vasodilators with reduced tolerance

INVENTOR(S): Repolles, Moliner Jose; Pubill Coy, Francisco; Cabeza Llorente, Lydia; Carbo Banus, Marcelli; Negrie Rofes, Cristina; Cerda Riudavets, Juan Antonio; Ferrer Siso, Alicia; Radomski, Marek W.; Salas Perez-rasilla, Eduardo; Martinez Bonnin, Juan

PATENT ASSIGNEE(S): Lacer, S.A., Spain; et al.

SOURCE: PCT Int. Appl., 35 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Spanish

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

KIND

DATE

APPLICATION NO.

DATE

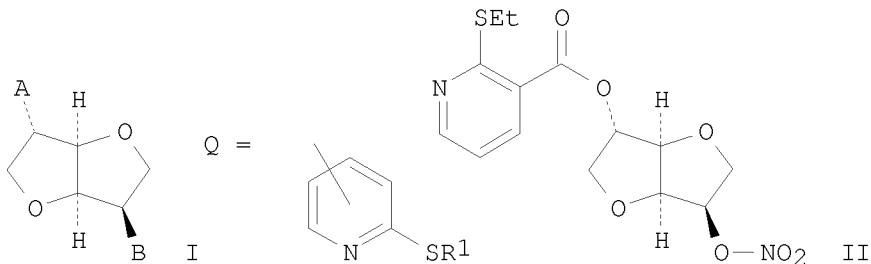
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| WO 2000020420 | A1 | 20000413 | WO 1999-ES316 | 19991004 |
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| RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, | | | AT, BE, CH, CY, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY | |
| ES 2142773 | A1 | 20000416 | ES 1998-2076 | 19981007 |
| ES 2142773 | B1 | 20010101 | | |
| CA 2346010 | A1 | 20000413 | CA 1999-2346010 | 19991004 |
| AU 9962041 | A | 20000426 | AU 1999-62041 | 19991004 |
| AU 762724 | B2 | 20030703 | | |
| BR 9914355 | A | 20010626 | BR 1999-14355 | 19991004 |
| EP 1120419 | A1 | 20010801 | EP 1999-949015 | 19991004 |
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| DE 19983612 | T0 | 20010927 | DE 1999-19983612 | 19991004 |
| HU 2001003937 | A2 | 20020228 | HU 2001-3937 | 19991004 |
| HU 2001003937 | A3 | 20031128 | | |
| EE 200100207 | A | 20020617 | EE 2001-207 | 19991004 |
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| JP 2002526544 | T | 20020820 | JP 2000-574532 | 19991004 |
| CN 1096465 | B | 20021218 | CN 1999-81802 | 19991004 |
| TR 200100961 | T2 | 20030221 | TR 2001-961 | 19991004 |
| NZ 510855 | A | 20040227 | NZ 1999-510855 | 19991004 |
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| ES 2257871 | T3 | 20060801 | ES 1999-949015 | 19991004 |
| ZA 2001002836 | A | 20020705 | ZA 2001-2836 | 20010405 |
| NO 2001001778 | A | 20010406 | NO 2001-1778 | 20010406 |
| US 2001051735 | A1 | 20011213 | US 2001-827868 | 20010406 |
| BG 105417 | A | 20011231 | BG 2001-105417 | 20010406 |
| BG 65135 | B1 | 20070330 | | |
| MX 2001PA03568 | A | 20020311 | MX 2001-PA3568 | 20010406 |
| HR 2001000256 | A1 | 20020430 | HR 2001-256 | 20010406 |
| IN 2001KN00395 | A | 20050520 | IN 2001-KN395 | 20010419 |
| US 2003225134 | A1 | 20031204 | US 2003-424828 | 20030428 |
| US 6858632 | B2 | 20050222 | | |
| PRIORITY APPLN. INFO.: | | | ES 1998-2076 | A 19981007 |
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OTHER SOURCE(S):

GI

MARPAT 132:279468



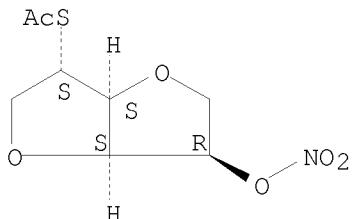
AB Isosorbide mononitrate derivs. I and their pharmaceutically acceptable salts are disclosed [wherein A or B = ONO₂; other = -Z-CO-R; Z = O or S; R = (un)substituted C1-C4 alkyl, aryl, aralkyl, or thio-substituted pyridinyl group Q; R₁ = H, (un)substituted C1-C4 alkyl, aryl, or aralkyl; when Z = S, R = (un)substituted C1-C4 alkyl, aryl, or aralkyl; when Z = O, R = Q]. The compds. have vasodilator activity with a reduced tolerance effect. For instance, 2-(ethylthio)nicotinic acid was converted to the acid chloride by SOCl₂ (100%), followed by coupling with isosorbide 5-mononitrate (88%), and acidification with HCl in Et₂O (99%), to give title compound II as the HCl salt. In an arterial ring vasodilation assay in vitro, II.HCl had an EC₅₀ of 0.13 mM, vs. 0.92 mM for isosorbide 5-mononitrate. In a tolerance assay, chronic (3 day) administration increased the EC₅₀ approx. 7-fold for isosorbide 5-mononitrate, vs. 4-fold for II.HCl, and essentially null for another invention compound

IT 263754-93-4P, 2-(Acetylmercapto)isosorbide 5-mononitrate
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(target compound; preparation of isosorbide mononitrate derivs. as vasodilators with reduced tolerance)

RN 263754-93-4 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-2-thio-, 2-acetate 5-nitrate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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COST IN U.S. DOLLARS

FULL ESTIMATED COST

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| SINCE FILE | TOTAL |
| ENTRY | SESSION |
| 12.82 | 191.85 |

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NEWS 20 JAN 28 USGENE now provides USPTO sequence data within 3 days
of publication
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NEWS 26 FEB 25 IMSPRODUCT reloaded with enhancements
NEWS 27 FEB 29 WPINDEX/WPIIDS/WPIX enhanced with ECLA and current
U.S. National Patent Classification

NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

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| NEWS LOGIN | Welcome Banner and News Items |
| NEWS IPC8 | For general information regarding STN implementation of IPC 8 |

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 15:08:10 ON 08 MAR 2008

FILE 'REGISTRY' ENTERED AT 15:08:34 ON 08 MAR 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 7 MAR 2008 HIGHEST RN 1007169-18-7
DICTIONARY FILE UPDATES: 7 MAR 2008 HIGHEST RN 1007169-18-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

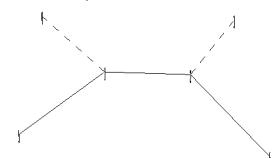
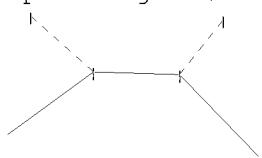
TSCA INFORMATION NOW CURRENT THROUGH January 9, 2008.

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stn/gen/stndoc/properties.html>

=>
Uploading C:\Program Files\Stnexp\Queries\disulfideoxides.str



```

chain nodes :
1 2 3 4 5 6
chain bonds :
1-2 1-5 1-4 2-6 2-3

```

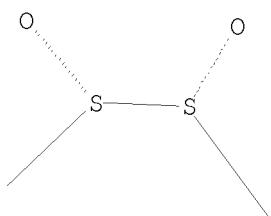
10544237

exact/norm bonds :
1-2 1-5 1-4 2-6 2-3

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s sss sam l1
SAMPLE SEARCH INITIATED 15:08:52 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 60 TO ITERATE

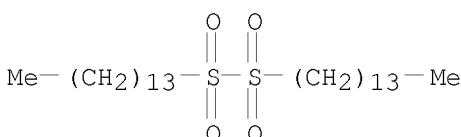
100.0% PROCESSED 60 ITERATIONS 4 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 736 TO 1664
PROJECTED ANSWERS: 4 TO 200

L2 4 SEA SSS SAM L1

=> d scan

L2 4 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Tetradecyl disulfone (8CI)
MF C28 H58 O4 S2



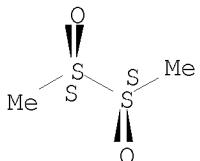
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

10544237

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):2

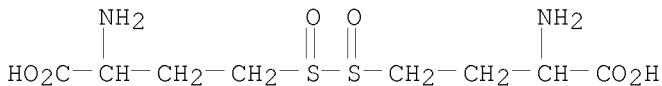
L2 4 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Disulfoxide, dimethyl, [S(R),S(R)]-rel- (9CI)
MF C2 H6 O2 S2

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L2 4 ANSWERS REGISTRY COPYRIGHT 2008 ACS on STN
IN Butanoic acid, 4,4'-disulfinylbis[2-amino- (9CI)
MF C8 H16 N2 O6 S2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

| => logoff y | COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|---------------------|----------------------|------------------|---------------|
| FULL ESTIMATED COST | | 0.92 | 1.13 |

STN INTERNATIONAL LOGOFF AT 15:09:28 ON 08 MAR 2008